

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	266	347/57.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:43
S2	2	("20050128232").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:29
S3	2	("20040252151").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:29
S4	2	("20040252144").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:41
S5	34	"347"/\$.ccls. and ((subtract\$3 decrease deduct detract diminish remove withdraw minus) with pulse with (oscillation oscillat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 14:58
S6	141	"347"/\$.ccls. and ((subtract\$3 decrease deduct detract diminish remove withdraw minus) same pulse same (oscillation oscillat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 14:55
S7	51	"347"/\$.ccls. and ((subtract\$3 decrease deduct detract diminish remove withdraw minus) with (signal waveform) with (oscillation oscillat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 15:01
S8	9	"347"/\$.ccls. and ((subtract\$3 decrease deduct detract diminish remove withdraw minus) with (signal waveform) with (oscillation oscillat\$3)) and (eject\$3 with fail\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 15:07

## EAST Search History

S9	10	"347"/27.ccls. and ((pulse signal) with oscillat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 15:08
S10	0	"347"/27.ccls. and ((pulse signal) with oscillat\$4) and (eject\$3 with fail\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 15:09
S11	0	("2005/0128232").URPN.	USPAT	OR	OFF	2006/02/24 15:09
S12	8	"347"/27.ccls. and ((pulse signal)) and (eject\$3 with fail\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/24 15:44
S13	2	("4484199").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:44
S14	15	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) near15 (air near bubble) and (eject\$3 near fail\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 09:31
S15	17	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) near15 (air near bubble) same (threshold point))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 09:45
S16	8	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) near15 (paper near dust) same (threshold point))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 09:47
S17	30	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) near15 (nozzle with (clog\$4 block\$3)) same (threshold point))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 09:49

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S18	16	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) near15 (nozzle with (clog\$4 block\$3)) same (threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 15:54
S19	200	"347"/\$.ccls. and ((switch\$3 chang\$3) same (actuator) same (circuit and oscillati\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:36
S20	10	"347"/\$.ccls. and ((switch\$3) same (actuator) same ((driv\$3 near circuit) with oscillati\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:40
S21	17	"347"/\$.ccls. and ((period (time near period)) with vibration with diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:44
S22	1	"347"/\$.ccls. and ((many more multiple various different several) near (period (time near period)) with vibration with diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:54
S23	3	"347"/\$.ccls. and ((period (time near period)) with vibration with diaphragm with (half near cycle))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 10:56
S24	7	"347"/\$.ccls. and ((period (time near period)) with vibration with diaphragm with (half))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:12
S25	1	"347"/\$.ccls. and ((period (time near period)) with vibration with diaphragm with (quarter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 15:07

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S26	4	"347"/\$.ccls. and ((period (time near period)) with (quarter near cycle))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:24
S27	1	"347"/\$.ccls. and ((period (time near period)) same (quarter near cycle)) same vibration	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:24
S28	11	"347"/\$.ccls. and ((period (time near period)) with (quarter)) same vibration	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:57
S29	237	"347"/\$.ccls. and ((oscillat\$3) with (capacitor capacit\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:58
S30	12	"347"/\$.ccls. and ((oscillat\$3) with (capacitor capacit\$4) with vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:59
S31	13	"347"/\$.ccls. and ((oscillat\$3) with (diaphragm) with vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 12:00
S32	13	"347"/\$.ccls. and ((oscillat\$4) with (diaphragm) with vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 12:00
S33	6	((("5731826") or ("20020170353") or ("20050122360")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 14:08

## EAST Search History

S34	3	("20020149657").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 14:42
S35	2	("5379061").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 14:52
S36	2	("6299277").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 14:52
S37	14	"347"/\$.ccls. and (detect\$3 near (dirt dust (paper near dust)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 15:09
S38	18	"347"/\$.ccls. and (detect\$3 near15 (dirt dust (paper near dust)) with nozzle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 15:10
S39	41	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) same (nozzle with (clog\$4 block\$3)) same (threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 15:55
S40	49	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) same (nozzle with (clog\$4 block\$3 dust dirt)) same (threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 16:10
S41	9	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) same (nozzle with ((paper near dust) dust dirt)) same (threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 16:10

## EAST Search History

S42	9	"347"/\$.ccls. and ((determin\$3 find found decide check discover verify detect figure) same (nozzle with ((paper near dust) debris dust dirt)) same (threshold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 16:11
S43	2	("6322190").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 16:40
S44	2	("20040239714").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 16:40
S45	5	("6168263").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 17:32
S46	5	("6168263").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 17:32